

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-26. (Cancelled)

27. (Previously Presented) A system-on-panel typed liquid crystal display device, comprising:

a first glass substrate including at least first, second and third regions;

a pixel array including a switching device and a pixel electrode in the first region of the first substrate, the pixel array having an active layer formed of amorphous silicon;

a driver circuit formed on the first substrate in the second region, the driver circuit having an active layer formed of polycrystalline silicon crystallized from an amorphous silicon deposited directly on the first substrate, the polycrystalline having silicon grains growing by single-pulse lateral growth process;

a controller unit formed on the first substrate in the third region, wherein the pixel array, driver circuit and controller unit are integrally located on the first substrate, and wherein the controller unit includes an active layer formed of single crystalline silicon in which silicon grains have a length beyond a single-pulse lateral growth distance and is grown from the amorphous silicon by single-pulse lateral growth process;

a passivation layer over the pixel array, driver circuit and controller unit;

a second substrate substantially parallel to the first substrate; and

liquid crystal between the first and second substrates,

wherein the controller unit including CPU, RAM, ROM, IC, resistors, capacitors, oscillators, and connectors, the CPU, RAM, ROM, IC, resistors, capacitors, oscillators, connectors being formed on the first glass substrate by the same process.

28-32. (Cancelled)

33. (Previously Presented) The system-on-panel typed liquid crystal display of claim 27, wherein the controller unit includes a central processing unit.

34. (Cancelled)